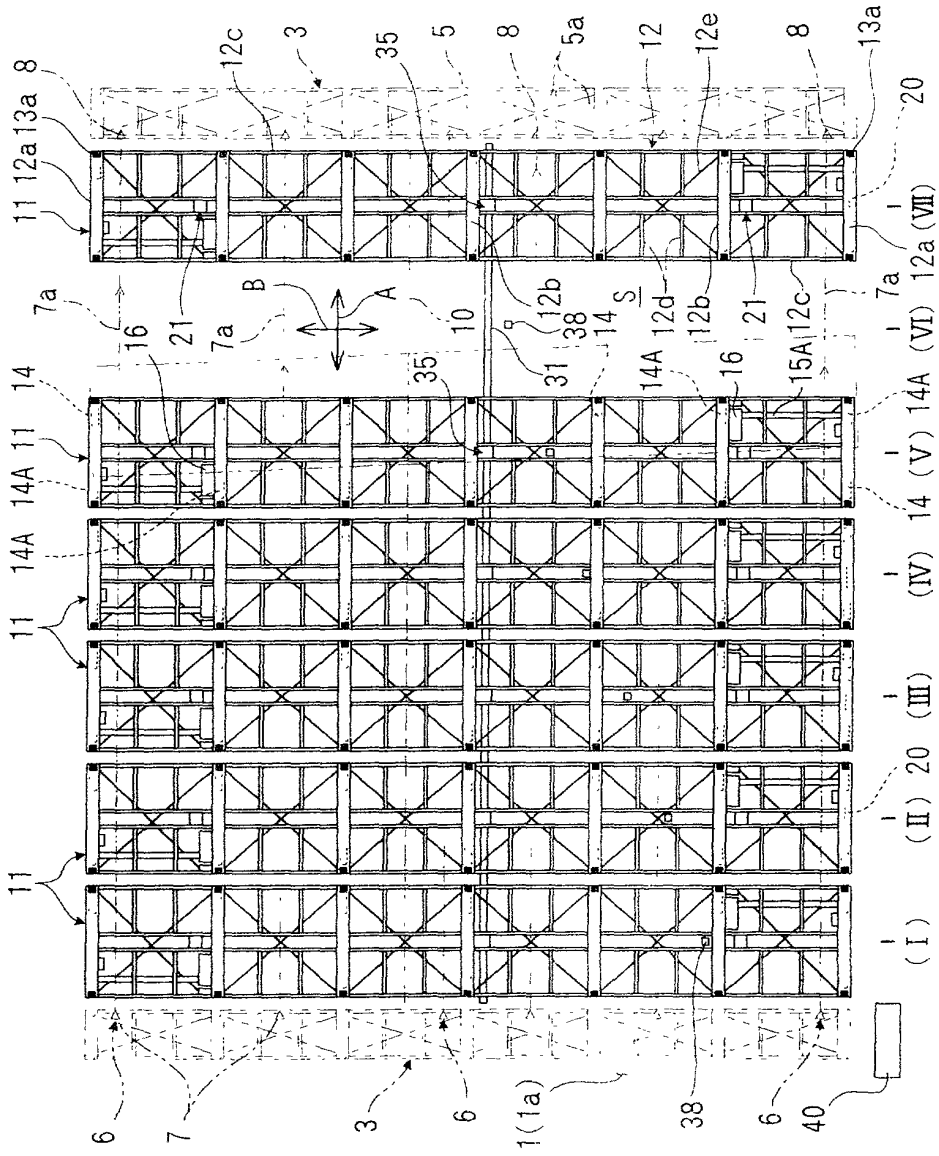
FIG. 1


8
12c
3
35
5
8
5a
12
12e
8
13a
20
11
12a
13a
7a
B
A
10
12b
S
12d
12b
21
12c
7a
12a (VII)
16
21
7a
38
14
14A
16
15A
14A (VI)
14
35
31
14
14A
11
14A
14 (V)
11
14A
(IV)
11
(III)
20
11
(II)
(I)
6
7
3
6
1(1a)
38
6
40

NEW APPLICATION
INVENTOR(S): Joji Hatanaka
TITLE: MOVABLE RACK SYSTEM
DOCKET NO.: MM7501US

FIG. 2

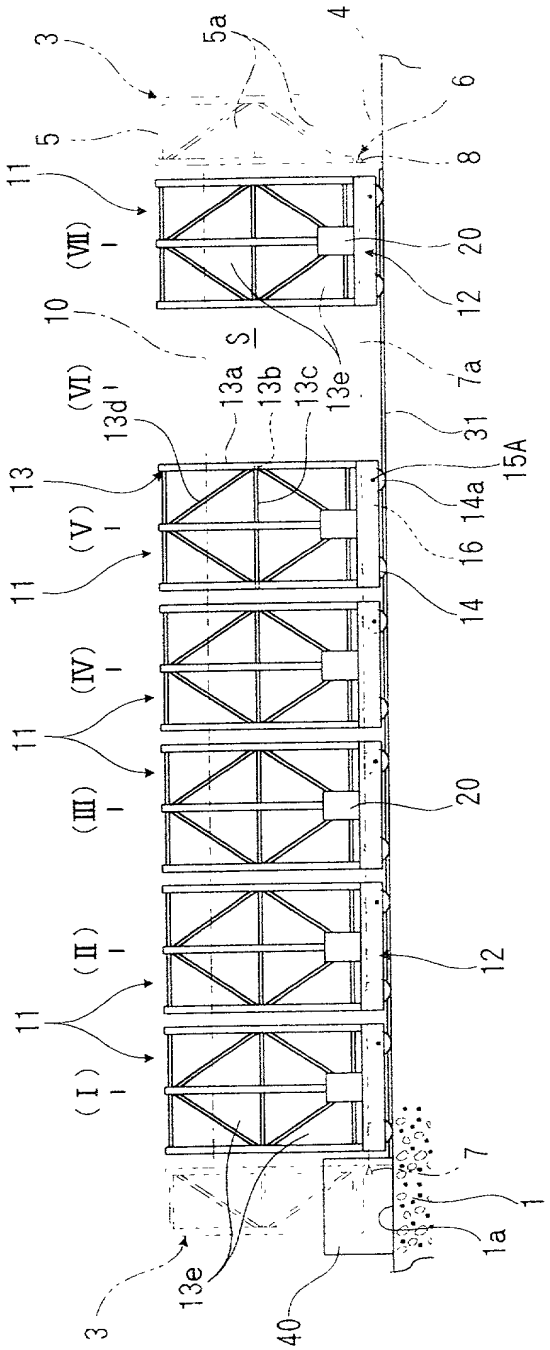


FIG. 3a

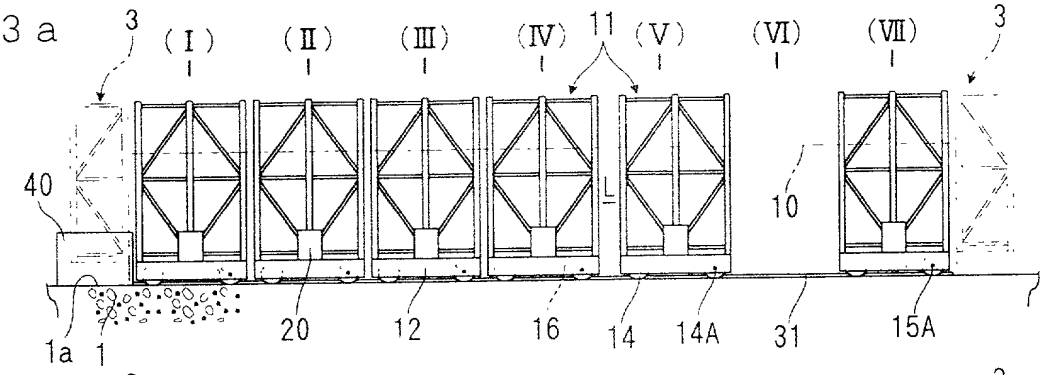


FIG. 3b

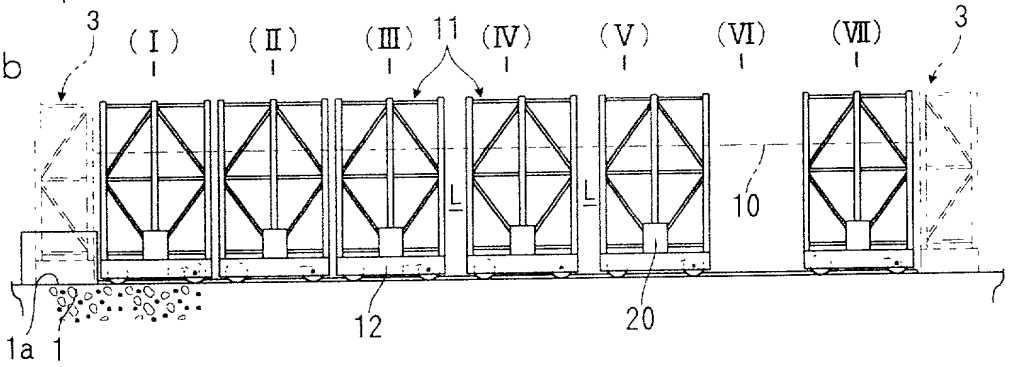


FIG. 3c

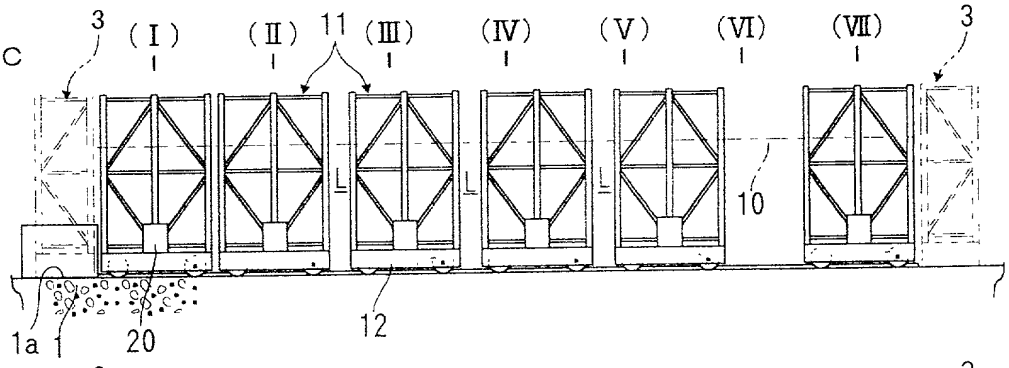


FIG. 3d

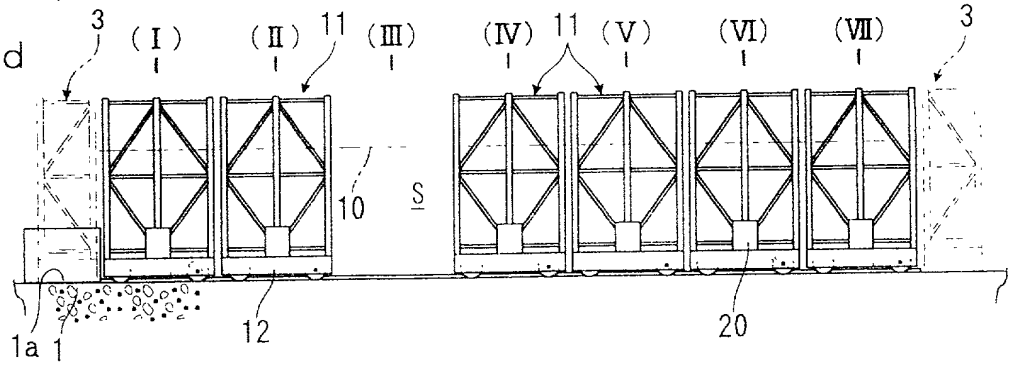


FIG. 4

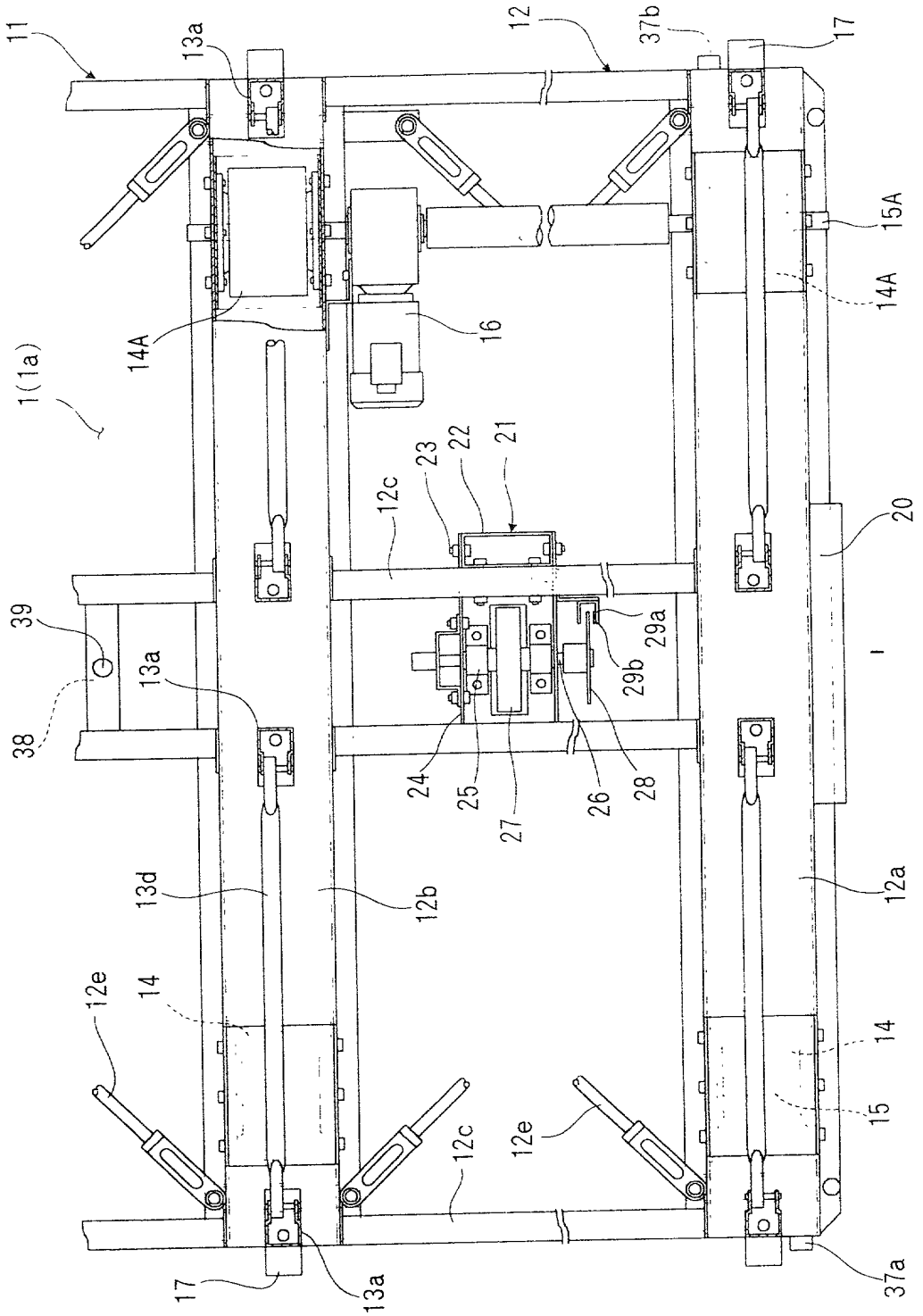

11
13a
12
37b
17
15A
14A
16
1(1a)
23
22
21
12c
20
39
29a
29b
13a
38
24
25
27
26
28
13d
12b
12a
12e
14
15
12c
12e
17
13a
37a

FIG. 5

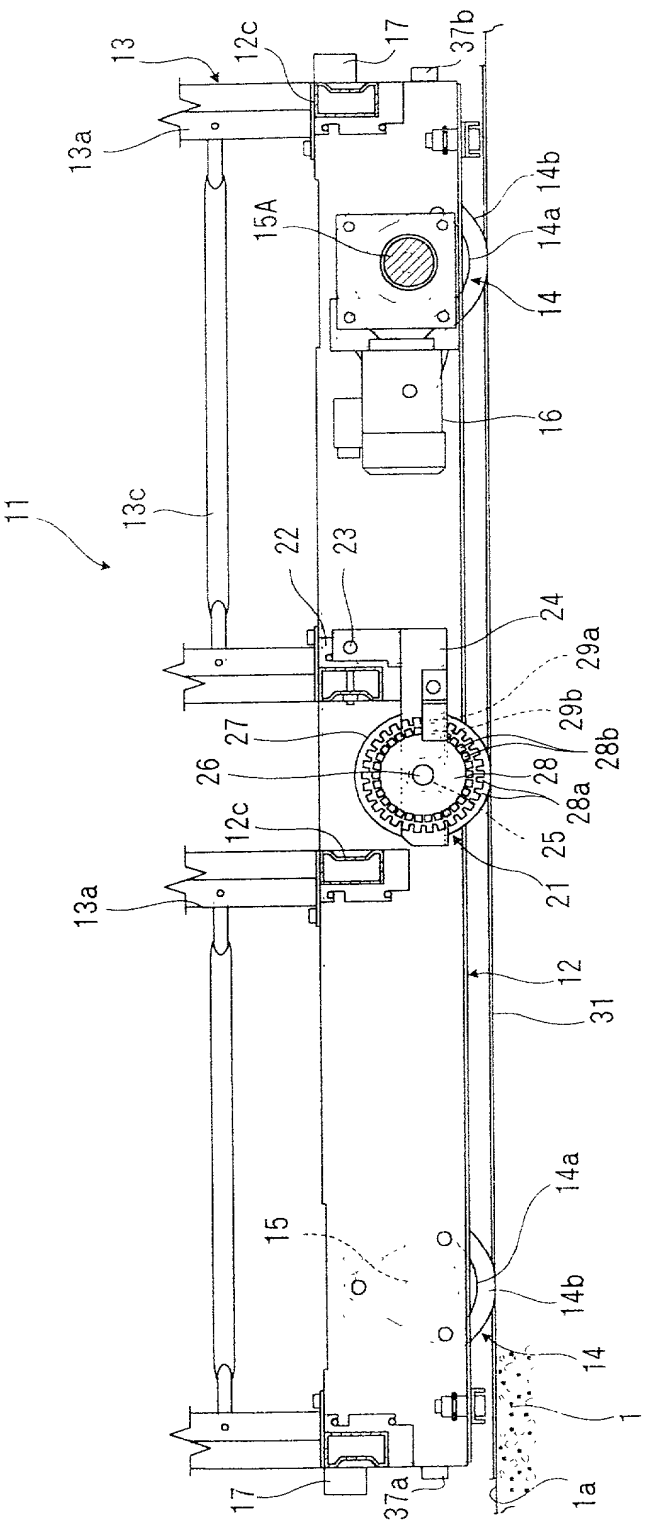

11
13
12c
17
37b
13a
15A
14b
14a
14
16
13c
22
23
24
29a
29b
28b
27
26
28
28a
25
21
12
31
15
1
1a
17
37a

FIG. 6

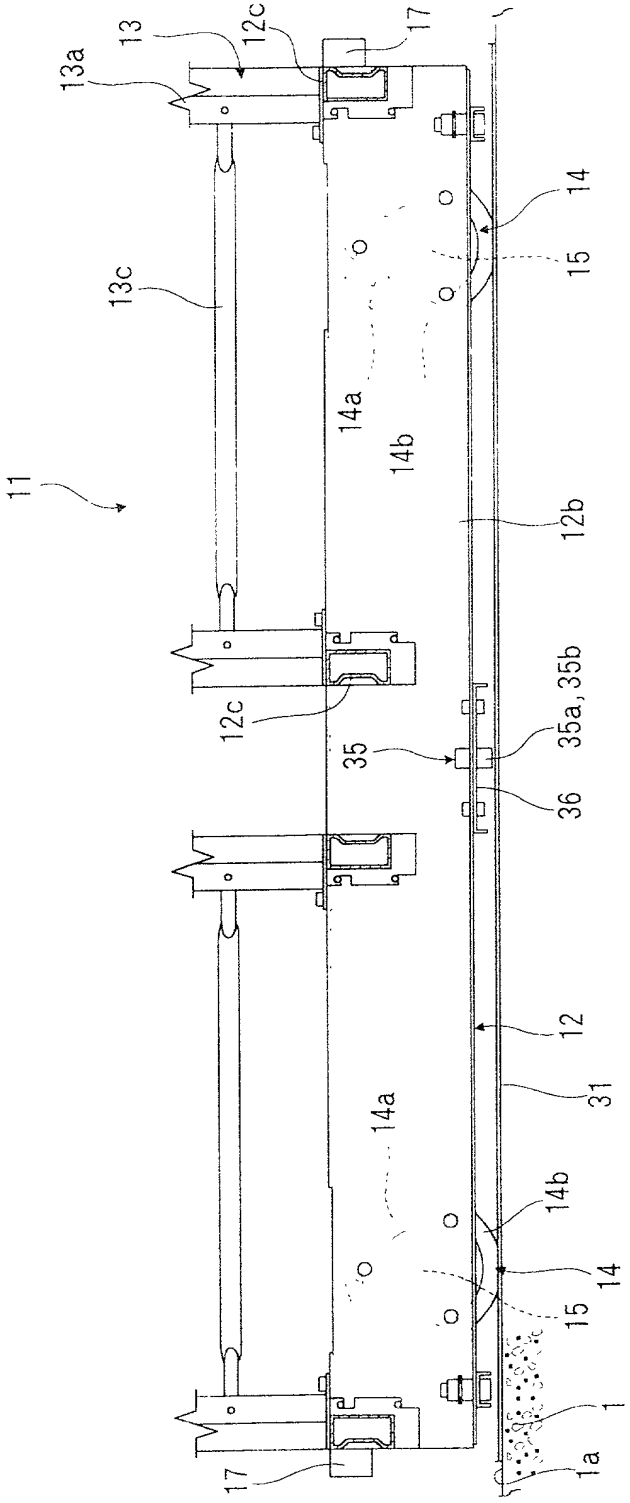

11
13a
13
12c
17
13c
14
15
14a
14b
12b
12c
35
35a, 35b
36
12
31
14a
14b
14
15
1
1a
17

FIG. 7

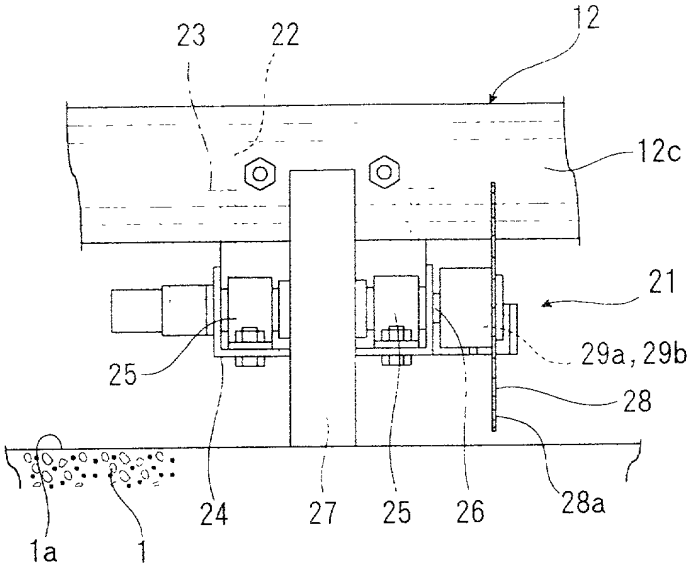
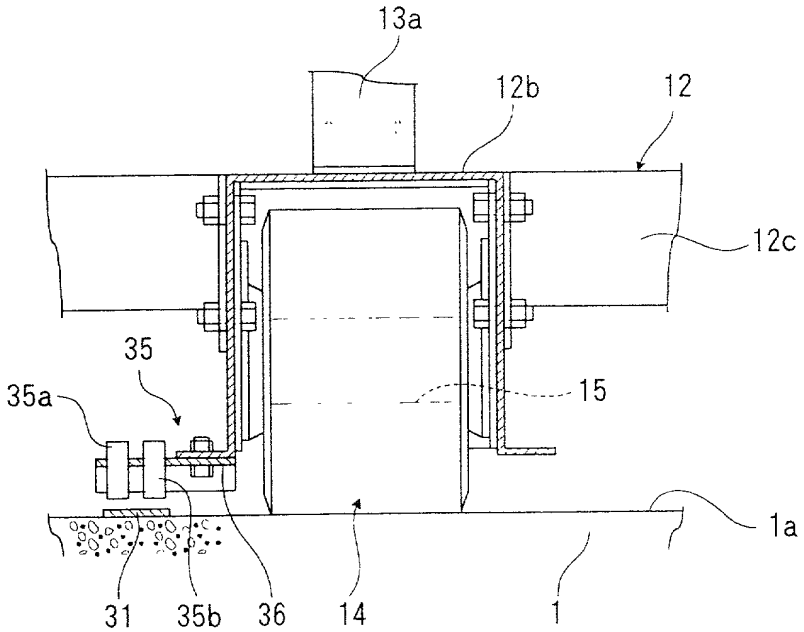

23
22
12
12c
21
29a, 29b
25
28
28a
24
27
25
26
1a
1

FIG. 8


13a
12b
12
12c
35
35a
15
1a
31
35b
36
14
1

NEW APPLICATION
INVENTOR(S): Joji Hatanaka
TITLE: MOVABLE RACK SYSTEM
DOCKET NO.: MM7501US

FIG. 9

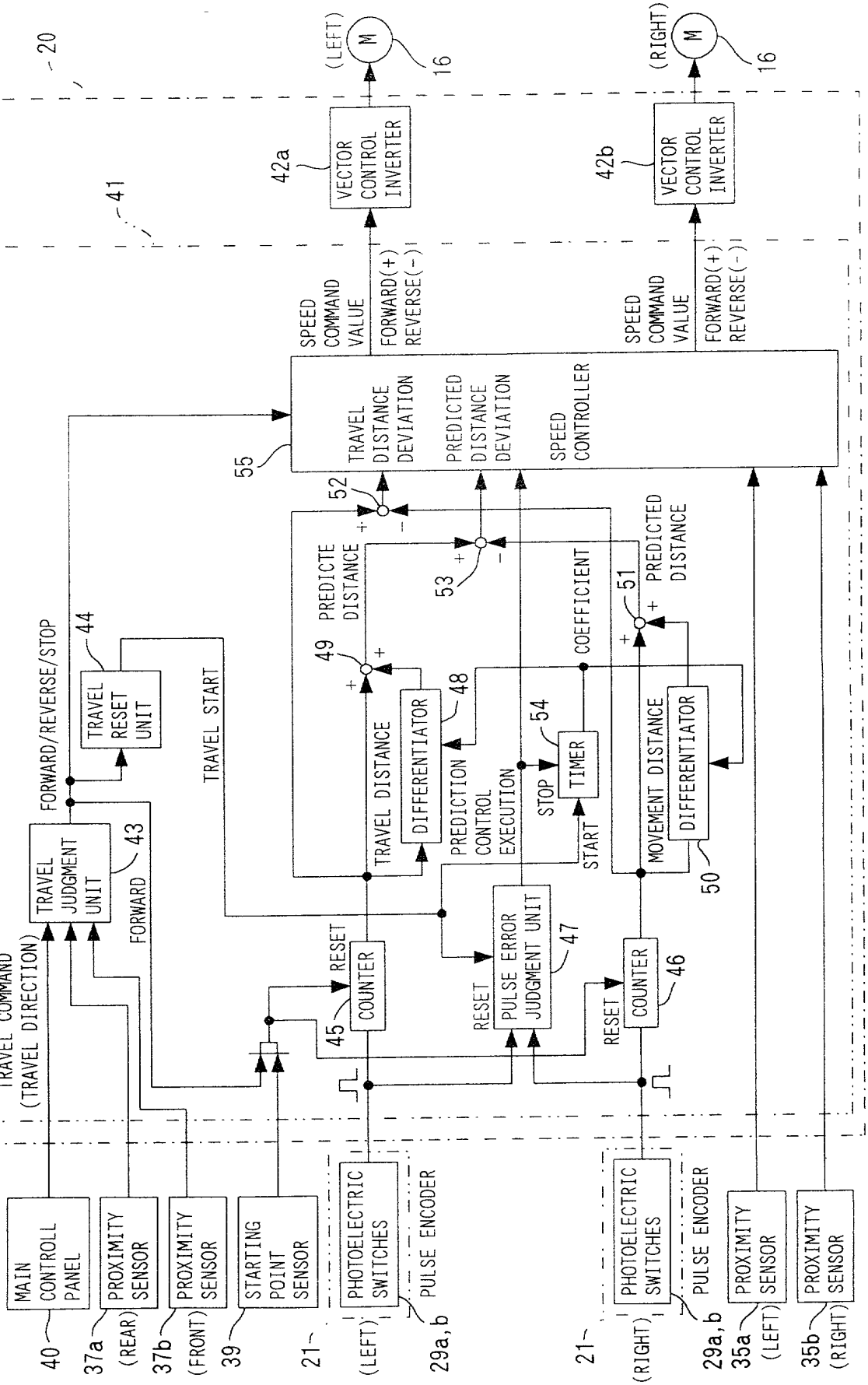


FIG. 10

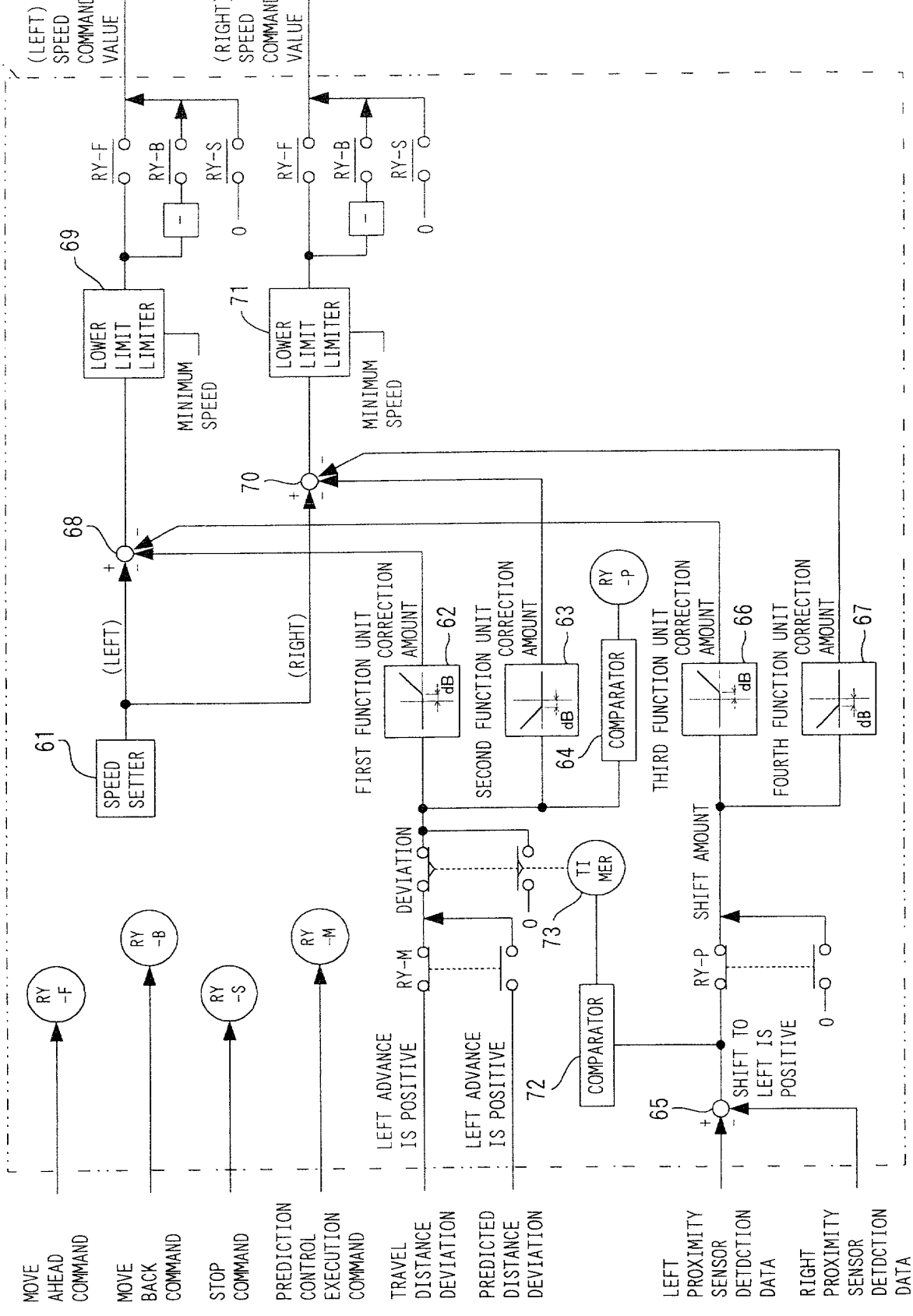

SPEED CONTROLLER
55
(LEFT) SPEED COMMAND VALUE
(RIGHT) SPEED COMMAND VALUE
RY-F
RY-B
RY-S
69
LOWER LIMIT LIMITER
MINIMUM SPEED
71
68
70
(LEFT)
(RIGHT)
61
SPEED SETTER
FIRST FUNCTION UNIT CORRECTION AMOUNT
62
SECOND FUNCTION UNIT CORRECTION AMOUNT
63
64
COMPARATOR
RY-P
THIRD FUNCTION UNIT CORRECTION AMOUNT
66
FOURTH FUNCTION UNIT CORRECTION AMOUNT
67
dB
RY-M
DEVIATION
TIMER
73
SHIFT AMOUNT
72
65
SHIFT TO LEFT IS POSITIVE
LEFT ADVANCE IS POSITIVE
RY-F
RY-B
RY-S
RY-M
MOVE AHEAD COMMAND
MOVE BACK COMMAND
STOP COMMAND
PREDICTION CONTROL EXECUTION COMMAND
TRAVEL DISTANCE DEVIATION
PREDICTED DISTANCE DEVIATION
LEFT PROXIMITY SENSOR DETDCTION DATA
RIGHT PROXIMITY SENSOR DETDCTION DATA

FIG. 11a

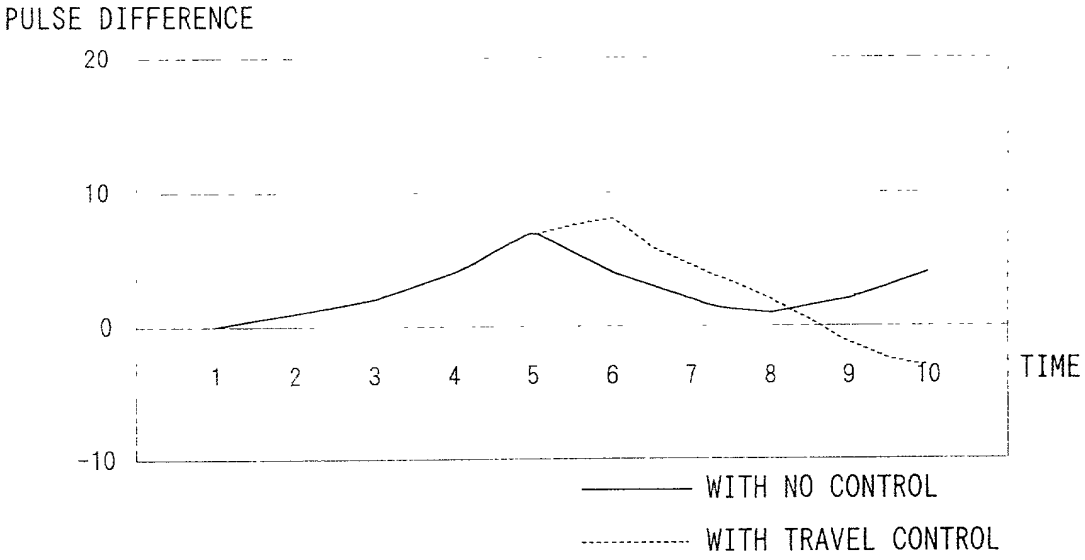


FIG. 11b

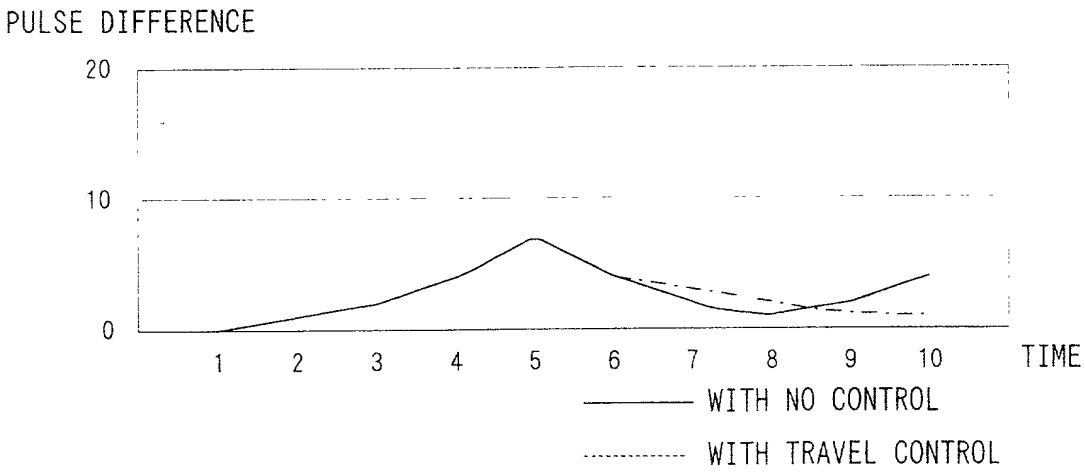


FIG. 12

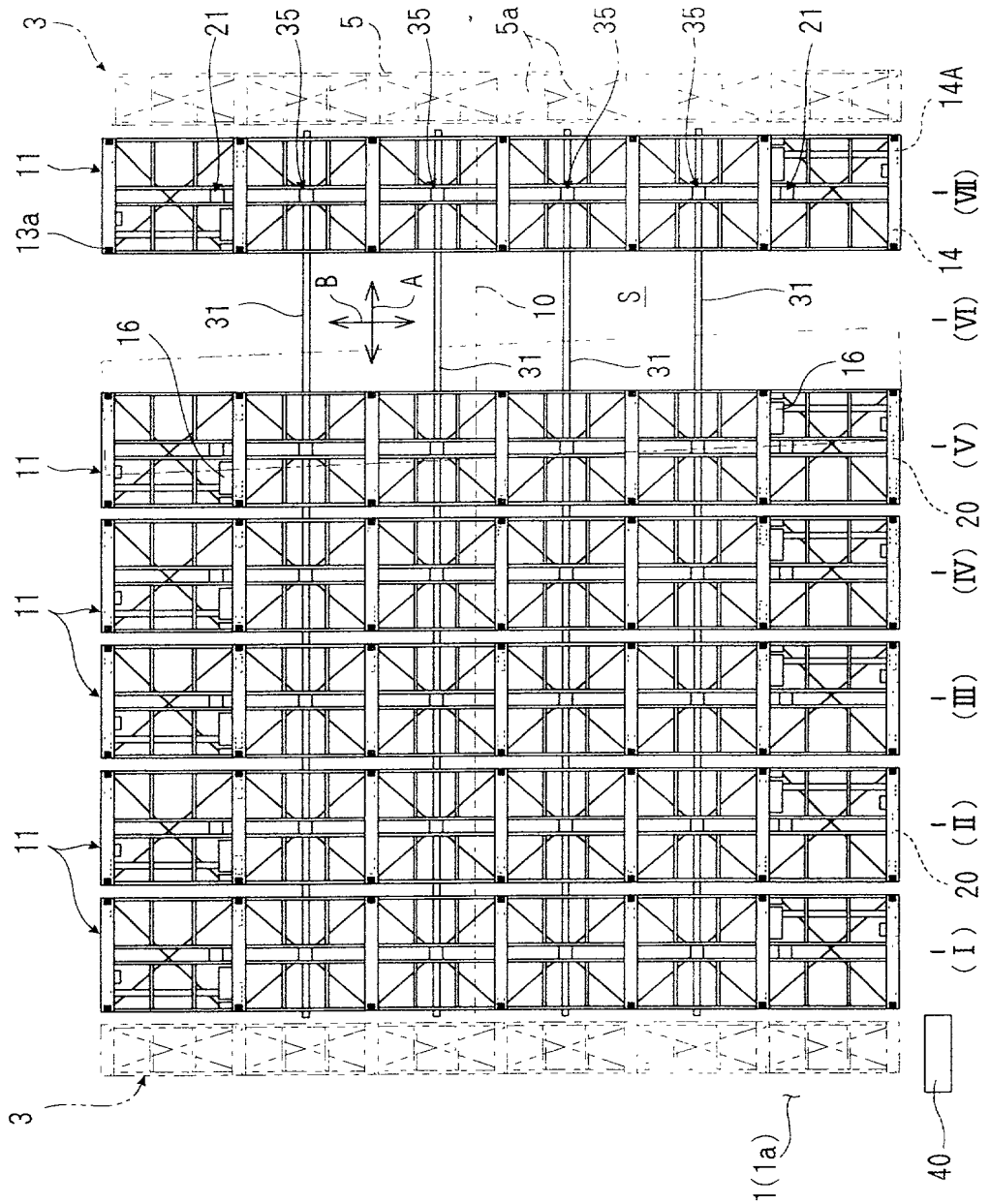

3
21
35
5
35
5a
35
35
21
14A
11
13a
14
(VII)
B
A
31
10
S
31
16
(VI)
31
31
16
11
(V)
20
(IV)
11
(III)
11
(II)
20
(I)
3
1(1a)
40

FIG. 13

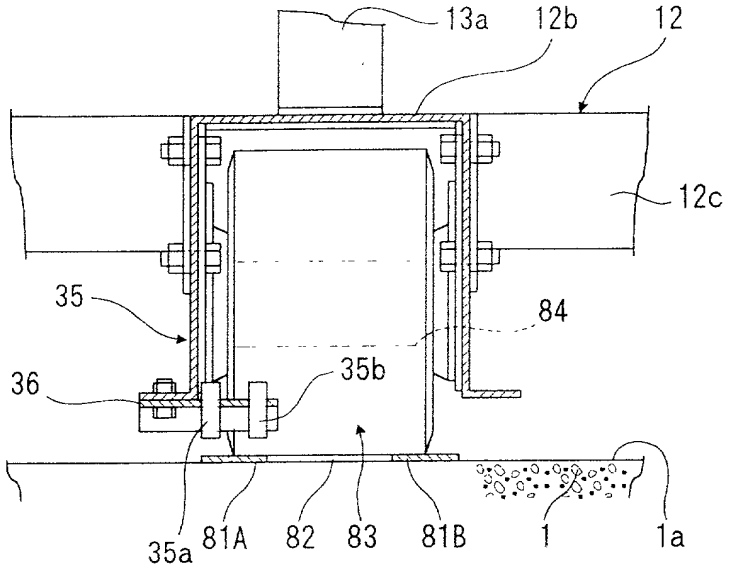

13a
12b
12
12c
35
84
36
35b
35a
81A
82
83
81B
1
1a

FIG. 14

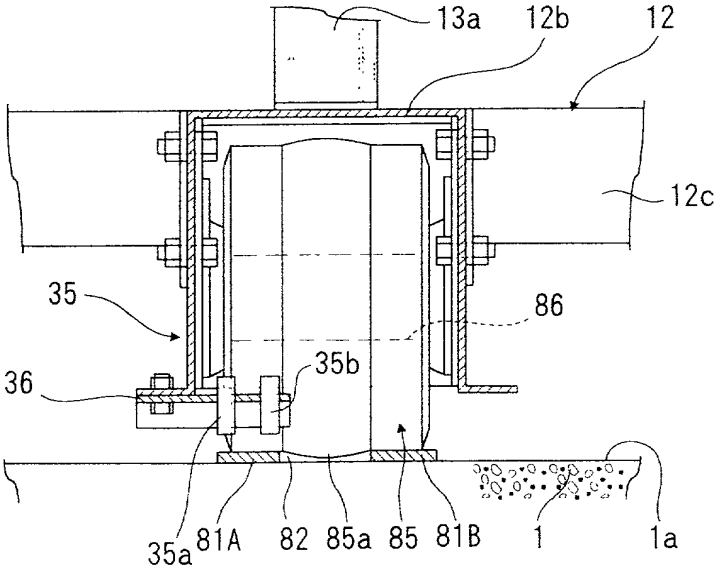

13a
12b
12
12c
35
86
36
35b
35a
81A
82
85a
85
81B
1
1a

FIG. 15

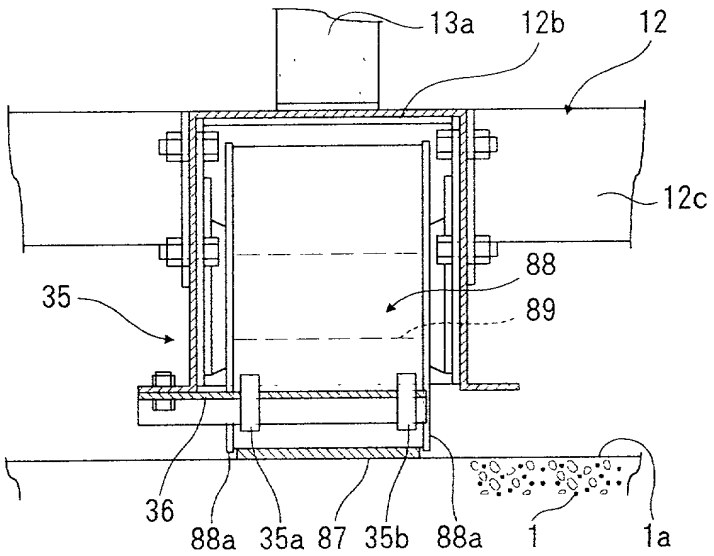


FIG. 16a

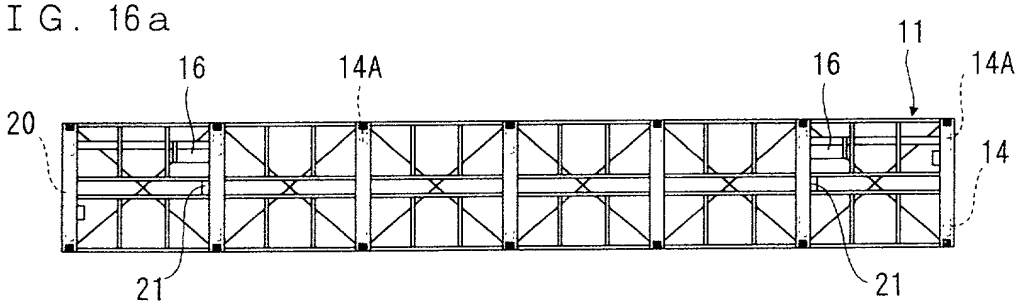


FIG. 16b

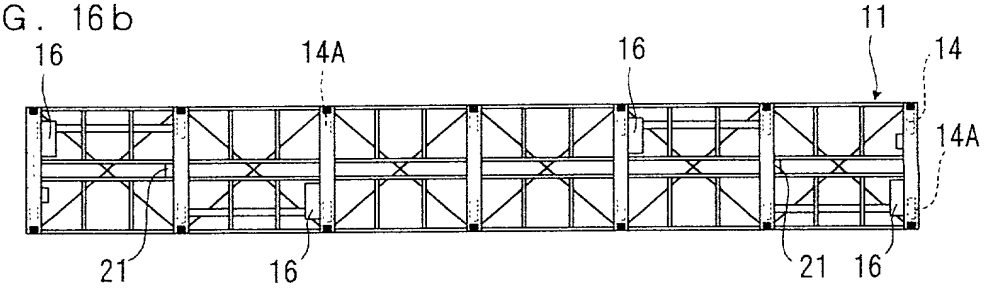


FIG. 16c

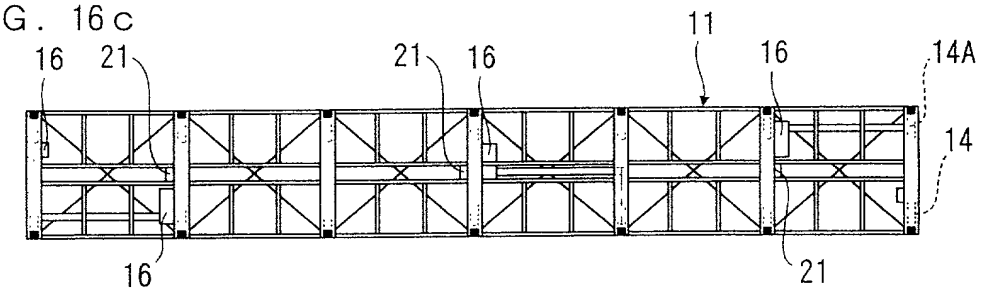
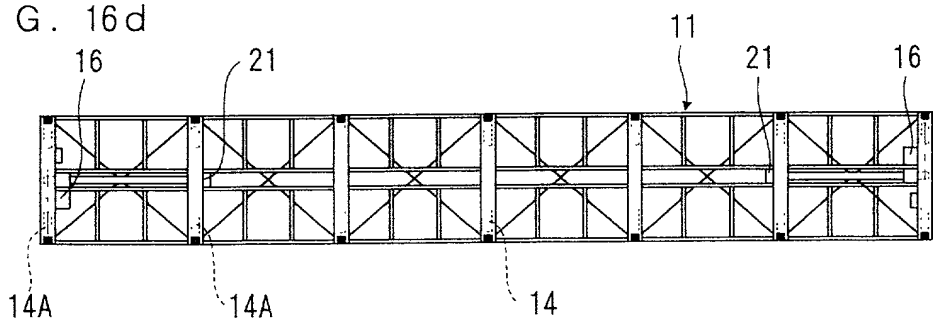


FIG. 16d



Express Mail Label No. EV 096045202